

CRPF SI Sub Inspector Civil Paper 25 June 2023 With Answer Key

Participant ID	
Participant Name	
Test Center Name	ION Digital Zone iDZ Bopal
Test Date	25/06/2023
Test Time	4:30 PM - 6:30 PM
Subject	Sub Inspector Civil

Section : Professional Knowledge

Q.1 The ratio of direct stress to the corresponding volumetric strain is found to be constant for a given material when the deformation is within a certain limit. This ratio is known as _____.

- Ans**
- ✓ **A. Bulk modulus**
 - ✗ **B. Young's modulus**
 - ✗ **C. Section modulus**
 - ✗ **D. Poisson's ratio**

Question ID : **630680251908**
Status : **Answered**
Chosen Option : **A**

Q.2 _____ is high performance blended cement produced by mixing of Portland cement and ground granulated blast slag in suitable proportions.

- Ans**
- ✓ **A. Portland slag cement**
 - ✗ **B. Portland pozzolona cement**
 - ✗ **C. Masonry cement**
 - ✗ **D. Hydrophobic cement**

Question ID : **630680251887**
Status : **Answered**
Chosen Option : **A**

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Q.3 _____ is defined as the ratio of weight of water (W_W) to the weight of solids (W_S) in a given mass of soil.

- Ans**
- ☒ A. Void ratio
 - ☒ B. Water content
 - ☒ C. Dry density
 - ☒ D. Porosity

Question ID : 630680251899
Status : Answered
Chosen Option : B

Q.4 _____ is the method of leveling in which the difference in elevation between two points is accurately determined by two sets of reciprocal observations when it is not possible to set up the level between two points.

- Ans**
- ☒ A. Precise leveling
 - ☒ B. Cross-section leveling
 - ☒ C. Profile leveling
 - ☒ D. Reciprocal leveling

Question ID : 630680251915
Status : Answered
Chosen Option : D

Q.5 The maximum energy stored in the body without permanent deformation is known as _____.

- Ans**
- ☒ A. Proof stress
 - ☒ B. Modulus of resilience
 - ☒ C. Proof resilience
 - ☒ D. Young's modulus

Question ID : 630680251909
Status : Answered
Chosen Option : C

Q.6 _____ in a critical path method, is the amount of time that a task can be delayed without causing any delay to subsequent tasks and project completion date.

- Ans**
- ☒ A. Pinching
 - ☒ B. Slack
 - ☒ C. Gain
 - ☒ D. Dummy

Question ID : 630680251886
Status : Answered
Chosen Option : B

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Q.7 _____ is a softening process caused by remoulding, followed by a time-dependent return to the original harder state.

- Ans
- ✓ A. Thixotropy
 - ✗ B. Activity
 - ✗ C. Collapsibility
 - ✗ D. Sensitivity

Question ID : 630680251901
Status : Answered
Chosen Option : A

Q.8 The minimum compressive strength of 33 grade OPC cement is _____.

- Ans
- ✗ A. 33 KN/m²
 - ✗ B. 33 kg/m²
 - ✗ C. 33 N/m²
 - ✓ D. 33 N/mm²

Question ID : 630680251883
Status : Answered
Chosen Option : D

Q.9 _____ is a phenomenon that can occur in any piping system where valves are used to control the flow of liquid and steam and it is the result of a pressure surge, or high pressure shockwave that propagates through a piping system when a fluid in motion is forced to change direction to stop abruptly.

- Ans
- ✗ A. Cavitation
 - ✓ B. Water hammer
 - ✗ C. Gate pass
 - ✗ D. Spillway

Question ID : 630680251893
Status : Answered
Chosen Option : B

Q.10 _____ is a disorder that may cause increased dental caries (or tooth decay) is the breakdown of dental tissue by the acidic product releases by the bacterial fermentation of dietary carbohydrates.

- Ans
- ✓ A. Fluoride deficiency
 - ✗ B. Lead in excess
 - ✗ C. Nitrate deficiency
 - ✗ D. Excess in ammonia

Question ID : 630680251896
Status : Answered
Chosen Option : A

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Q.11 _____ is that part in excess of hygroscopic water which exists in the pore space of the soil by molecular attraction.

- Ans
- ☒ A. Capillary water
 - ☐ B. Hydroscopic water
 - ☐ C. Available water
 - ☐ D. Gravitational water

Question ID : 630680251927
Status : Answered
Chosen Option : A

Q.12 _____ is a slope provided on the road surface in the transverse direction to drain out the rain water from surface to avoid skid of vehicles and pavement damages.

- Ans
- ☐ A. Shoulder
 - ☐ B. Band
 - ☒ C. Camber
 - ☐ D. Kerb

Question ID : 630680251921
Status : Answered
Chosen Option : C

Q.13 _____ is the weight of solids per unit of its total volume of the soil mass.

- Ans
- ☐ A. Unit weight of solids
 - ☐ B. Saturated weight
 - ☒ C. Dry unit weight
 - ☐ D. Bulk unit weight

Question ID : 630680251900
Status : Answered
Chosen Option : A

Q.14 _____ is controlled burning process to reduce waste volume and combustors when properly equipped, can also convert waste into steam for heating system.

- Ans
- ☐ A. Landfills
 - ☐ B. Composting
 - ☒ C. Incineration
 - ☐ D. Reusing

Question ID : 630680251894
Status : Answered
Chosen Option : C

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Q.15 _____ are used to regulate the flow of water through the pipes.

- Ans
- ☐ A. Globe valve
 - ☐ B. Pressure relief valve
 - ☒ C. Gate valve
 - ☐ D. Ball valve

Question ID : 630680251895
Status : Answered
Chosen Option : A

Q.16 _____ of a canal is the ratio of the number of days the canal has actually run to the number of days of irrigation period.

- Ans
- ☐ A. Outlet factor
 - ☐ B. Capacity factor
 - ☒ C. Time factor
 - ☐ D. Kor period

Question ID : 630680251929
Status : Answered
Chosen Option : B

Q.17 The ratio of change of dimension of the body to the original dimension is known as _____.

- Ans
- ☒ A. strain
 - ☐ B. stress
 - ☐ C. both stress and strain
 - ☐ D. neither stress nor strain

Question ID : 630680251907
Status : Answered
Chosen Option : A

Q.18 _____ is defined as the line joining the places of zero declination.

- Ans
- ☐ A. Isoclinic line
 - ☐ B. Isogonic line
 - ☐ C. Aclinic line
 - ☒ D. Agonic line

Question ID : 630680251913
Status : Answered
Chosen Option : D

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Q.19 _____ of a pump is defined as the difference between the actual discharge and theoretical discharge of the pump.

- Ans
- ☐ A. Plunger slip
 - ☐ B. Diaphragm slip
 - ☒ C. Negative slip
 - ☐ D. Deviation slip

Question ID : 630680251906

Status : Answered

Chosen Option : C

Q.20 _____ is used to bear the compression load of the railroad ties, rails and rolling stock and keep down vegetation that can compromise the integrity of the combined track structure.

- Ans
- ☒ A. Ballast
 - ☐ B. Fasteners
 - ☐ C. Rivet
 - ☐ D. Ties

Question ID : 630680251923

Status : Answered

Chosen Option : A

Q.21 _____ term implies taking up or down or breaking up a structure and clearing off the site and anyhow useful material is to be taken out with care to fetch some cost.

- Ans
- ☐ A. Diffusion
 - ☒ B. Demotion
 - ☐ C. Dismantling
 - ☐ D. Dispersion

Question ID : 630680251897

Status : Answered

Chosen Option : C

Q.22 _____ is approximate estimate and prepared by owner itself before the actual award of work to any agency.

- Ans
- ☐ A. Curtailed estimate
 - ☒ B. Preliminary estimate
 - ☐ C. Detailed estimate
 - ☐ D. Cube rate estimate

Question ID : 630680251898

Status : Answered

Chosen Option : B

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Q.23 _____ is the distance between two centers of the consecutive rivets in a single row.

- Ans
- ☒ A. Pitch
 - ☐ B. Edge distance
 - ☐ C. End distance
 - ☐ D. Gauge

Question ID : 630680251889
Status : Answered
Chosen Option : A

Q.24 _____ is a thermal waste treatment technique that can be understood as a controlled combustion process with the primary objective of volume reduction and energy recovery from the waste stream.

- Ans
- ☐ A. Land fills
 - ☐ B. Recycling
 - ☐ C. Composite
 - ☒ D. Incineration

Question ID : 630680251911
Status : Answered
Chosen Option : D

Q.25 A load of 150 kN crosses a bridge AB of span 15 metre. What is the value of maximum positive shear force 5 metre from the left end support?

- Ans
- ☐ A. 150 kN
 - ☐ B. 50 kN
 - ☐ C. 200 kN
 - ☒ D. 100 kN

Question ID : 630680251919
Status : Answered
Chosen Option : D

Q.26 If the forces in the members of a structure as well as its reactions can be found by the conditions of equilibrium or the principle of statics alone, it is known as a _____.

- Ans
- ☐ A. Mass structure
 - ☐ B. composite structure
 - ☒ C. statically determinate structure
 - ☐ D. statically indeterminate structure

Question ID : 630680251916
Status : Answered
Chosen Option : C

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Q.27 What will be the minimum size of fillet weld if the plate thickness is in between 10 mm to 20 mm?

- Ans
- ☐ A. 3 mm
 - ☐ B. 6 mm
 - ☐ C. 8 mm
 - ☒ D. 5 mm

Question ID : 630680251892

Status : Answered

Chosen Option : D

Q.28 _____ riveting is a type of riveting where the rivets are arranged in rows that run in the direction of the primary stress.

- Ans
- ☐ A. Lap
 - ☐ B. Zig-Zag
 - ☒ C. Chain
 - ☐ D. Diamond

Question ID : 630680251891

Status : Answered

Chosen Option : A

Q.29 _____ is the sight distance required for the faster vehicle to overtake the slower vehicle safely.

- Ans
- ☐ A. Stopping sight distance
 - ☐ B. Head light sight distance
 - ☒ C. Overtaking sight distance
 - ☐ D. Intermediate sight distance

Question ID : 630680251920

Status : Answered

Chosen Option : C

Q.30 _____ is the increase in the proportion of people living in towns and cities.

- Ans
- ☐ A. Nationalisation
 - ☐ B. Civilisaiton
 - ☐ C. Modunisation
 - ☒ D. Urbanisation

Question ID : 630680251910

Status : Answered

Chosen Option : D

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Q.31 The width of national and state highways in plain and rolling terrain for the two-lane is _____.

- Ans
- ☒ A. 14 metre
 - ☒ B. 6 metre
 - ☒ C. 12 metre
 - ☒ D. 8 metre

Question ID : 630680251925

Status : Answered

Chosen Option : C

Q.32 _____ is an in-situ non-destructive test to check the quality of concrete and natural rock.

- Ans
- ☒ A. Split tension test
 - ☒ B. Maturity test
 - ☒ C. Ultrasonic pulse velocity test
 - ☒ D. Compression test

Question ID : 630680251884

Status : Answered

Chosen Option : C

Q.33 _____ is the important compound of the cement responsible for development of slow strength but responsible for long term strength.

- Ans
- ☒ A. C_2S
 - ☒ B. C_4AF
 - ☒ C. C_3A
 - ☒ D. C_3S

Question ID : 630680251888

Status : Answered

Chosen Option : A

Q.34 _____, also called streamline flow, in which the fluid (gas or liquid) travels smoothly or in irregular paths.

- Ans
- ☒ A. Unsteady flow
 - ☒ B. Transition flow
 - ☒ C. Turbulent flow
 - ☒ D. Laminar flow

Question ID : 630680251903

Status : Answered

Chosen Option : C

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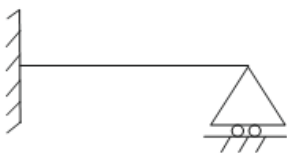
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Q.35 What is the value of degree of kinematic indeterminacy of the given beam?



- Ans
- ☒ A. 1
 - ☒ B. 0
 - ☒ C. 3
 - ☒ D. 2

Question ID : 630680251917

Status : Answered

Chosen Option : D

Q.36 _____ are the lines which are run in the field to check the accuracy of work.

- Ans
- ☒ A. Tie line
 - ☒ B. Base line
 - ☒ C. Check line
 - ☒ D. Survey line

Question ID : 630680251912

Status : Answered

Chosen Option : C

Q.37 _____ is a method of construction infrastructure in roadway curves in which the edges of the road are raised above the inner edge.

- Ans
- ☒ A. Grade elevation
 - ☒ B. Super elevation
 - ☒ C. Double elevation
 - ☒ D. Simple elevation

Question ID : 630680251924

Status : Answered

Chosen Option : B

Q.38 What is the value of modular ratio for M40 grade of concrete?

- Ans
- ☒ A. 9.33 N/mm²
 - ☒ B. 10.33 N/mm²
 - ☒ C. 9.66 N/mm²
 - ☒ D. 8.33 N/mm²

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Q.39 _____ is a device designed to control the direction or characteristics of a fluid flow as it exits an enclosed chamber or pipe.

- Ans
- ☒ A. Casing
 - ☒ B. Runner
 - ☒ C. Nozzle
 - ☒ D. Breaking Jet

Question ID : 630680251905
Status : Answered
Chosen Option : A

Q.40 _____ is a class of positive displacement pumps that includes the piston pump, plunger pump, and diaphragm pump.

- Ans
- ☒ A. Rotatory pump
 - ☒ B. Reciprocating pump
 - ☒ C. Position pump
 - ☒ D. Diaphragm pump

Question ID : 630680251904
Status : Answered
Chosen Option : A

Q.41 _____ is the total depth of water required by a crop during the entire period the crop is in the field.

- Ans
- ☒ A. Gamma
 - ☒ B. Delta
 - ☒ C. Beta
 - ☒ D. Theta

Question ID : 630680251926
Status : Answered
Chosen Option : B

Q.42 If the independent footings of two columns are connected by a beam, it is called a _____.

- Ans
- ☒ A. strap footing
 - ☒ B. spread footing
 - ☒ C. mat foundation
 - ☒ D. combined footing

Question ID : 630680251880
Status : Answered
Chosen Option : A

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Q.43 _____ in concrete is commonly thought of as separation of some size groups of aggregate from cement mortar in isolated location with corresponding deficiencies of these materials in other locations.

- Ans
- ☐ A. Slump loss
 - ☒ B. Segregation
 - ☐ C. Shrinkage
 - ☐ D. Bleeding

Question ID : 630680251882
Status : Answered
Chosen Option : B

Q.44 _____ is a fast and simple method for advancing holes in all types of soils. Boulders and rocks cannot be penetrated by this method.

- Ans
- ☒ A. Wash boring
 - ☐ B. Auger boring
 - ☐ C. Percussion boring
 - ☐ D. Rotary boring

Question ID : 630680251881
Status : Answered
Chosen Option : B

Q.45 What is the length of meter gauge in India?

- Ans
- ☐ A. 0.762 metre
 - ☒ B. 1 metre
 - ☐ C. 0.61 metre
 - ☐ D. 1.676 metre

Question ID : 630680251922
Status : Answered
Chosen Option : B

Q.46 Which of the following is the correct relation between e (void ratio), G (specific gravity), W (water content) and S (degree of saturation)?

- Ans
- ☐ A. $SW = e/G$
 - ☐ B. $SG = We$
 - ☐ C. $SW = eg$
 - ☒ D. $Se = WG$

Question ID : 630680251902
Status : Answered
Chosen Option : D

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Q.47 _____ is that water content at which plants can no longer extract sufficient water from the soil for its growth.

- Ans
- ☒ A. Field water point
 - ☒ B. Saturation capacity point
 - ☒ C. Permanent wilting point
 - ☒ D. Hygroscopic water point

Question ID : 630680251928

Status : Answered

Chosen Option : C

Q.48 What is the value of degree of kinematic indeterminacy of the given beam?



- Ans
- ☒ A. 0
 - ☒ B. 3
 - ☒ C. 1
 - ☒ D. 2

Question ID : 630680251918

Status : Answered

Chosen Option : A

Q.49 _____ is a step-by-step project management technique for process planning that defines critical and non-critical tasks with the goal of preventing project schedule problems and process bottlenecks.

- Ans
- ☒ A. Critical path method
 - ☒ B. Scheduling
 - ☒ C. Controlling
 - ☒ D. Program path method

Question ID : 630680251885

Status : Answered

Chosen Option : A

Q.50 _____ is defined as the line joining the places of the same dip.

- Ans
- ☒ A. Agonic line
 - ☒ B. Aclinic line
 - ☒ C. Isoclinic line
 - ☒ D. Isogonic line

Question ID : 630680251914

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Q.1 Which of the following statement is correct about Swachh Survekshan 2022?

I. Bhopal emerging as India's first 7-star Garbage Free city.

II. Surat earned 5-star Garbage Free certifications.

- Ans ☒ A. Only II
☐ B. Only I
☐ C. Both I and II
☐ D. Neither I nor II

Question ID : 630680251934

Status : Answered

Chosen Option : C

Q.2 Which of the following is a criteria to determine a language as a Classical language in India?

I. High antiquity of its early texts/recorded history over a period of 1500-2000 years.

II. The literary tradition be original and not borrowed from another speech community.

- Ans ☒ A. Both I and II
☐ B. Only I
☐ C. Only II
☐ D. Neither I nor II

Question ID : 630680251941

Status : Answered

Chosen Option : A

Q.3 Who is the author of Buddha charita?

- Ans ☐ A. Amoghavarsha
☐ B. Kamandaka
☒ C. Ashvaghosa
☐ D. Amarshmha

Question ID : 630680251939

Status : Answered

Chosen Option : C

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Q.4 In which of the following states or UTs does the Guwahati High Court have territorial jurisdiction?

I. Assam

II. Nagaland

- Ans
- ✓ A. Both I and II
 - ✗ B. Neither I nor II
 - ✗ C. Only I
 - ✗ D. Only II

Question ID : 630680251952

Status : Answered

Chosen Option : C

Q.5 Which of the following Indian states had the lowest decadal growth rate of population between 2001 and 2011, as per the 2011 census of India?

- Ans
- ✗ A. Bihar
 - ✓ B. West Bengal
 - ✗ C. Uttar Pradesh
 - ✗ D. Maharashtra

Question ID : 630680251948

Status : Answered

Chosen Option : B

Q.6 What is the 15th Sustainable Development Goal adopted by the United Nations in 2015?

- Ans
- ✗ A. Life Below Water
 - ✗ B. Climate Action
 - ✓ C. Life on Land
 - ✗ D. Reduced Inequalities

Question ID : 630680251932

Status : Answered

Chosen Option : B

Q.7 Who won the purple cap in IPL 2023?

- Ans
- ✗ A. Piyush Chawla
 - ✓ B. Mohammed Shami
 - ✗ C. Mohit Sharma
 - ✗ D. Rashid Khan

Question ID : 630680251930

Status : Answered

Chosen Option : B

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Q.8 Which of the following pairs of books and their authors is correct?

I. Kama Sutra- Vatsyayana

II. Lilavati- Bhaskar Acharya

- Ans ☒ A. Both I and II
☐ B. Only I
☐ C. Only II
☐ D. Neither I nor II

Question ID : 630680251940

Status : Answered

Chosen Option : B

Q.9 The climate and associated weather conditions in India are governed by which of the following atmospheric conditions?

I. Upper air circulation

II. Western cyclonic disturbances and tropical cyclones

- Ans ☐ A. Neither I nor II
☒ B. Both I and II
☐ C. Only I
☐ D. Only II

Question ID : 630680251944

Status : Answered

Chosen Option : B

Q.10 Which of the following parties did NOT participate in the demonstrations against the Simon Commission?

I. Indian National Congress

II. Muslim League

- Ans ☐ A. Only II
☒ B. Neither I nor II
☐ C. Only I
☐ D. Both I and II

Question ID : 630680251937

Status : Answered

Chosen Option : B

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Q.11 Which of the following statement is correct?

- I. Some organisms are made of only one cell.
- II. The cell is enclosed by a thin outer boundary, called the cell membrane.

Ans ☒ A. Only II
☒ B. Neither I nor II
☒ C. Only I
☒ D. Both I and II

Question ID : 630680251954
Status : Answered
Chosen Option : D

Q.12 IUCN (International Union for Conservation of Nature) was established in _____.

Ans ☒ A. 1951
☒ B. 1948
☒ C. 1944
☒ D. 1941

Question ID : 630680251931
Status : Answered
Chosen Option : C

Q.13 The Ahoms migrated to the _____ in the thirteenth century.

Ans ☒ A. Ganga valley
☒ B. Narmada valley
☒ C. Brahmaputra valley
☒ D. Godavari Valley

Question ID : 630680251938
Status : Answered
Chosen Option : C

Q.14 The dry deciduous forests are found in areas having rainfall between _____.

Ans ☒ A. 70 cm and 50 cm
☒ B. 100 cm and 70 cm.
☒ C. 150 cm and 100 cm.
☒ D. 170 cm and 150 cm.

Question ID : 630680251946
Status : Answered
Chosen Option : B

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Q.15 Which of the following characteristics of indifference curve is NOT correct?

- Ans ☒ A. Two indifference curves can intersect each other.
☐ B. It is convex to the origin.
☐ C. It is downward sloping.
☐ D. Higher indifference curve gives greater level of utility.

Question ID : 630680251935

Status : Answered

Chosen Option : A

Q.16 Part V of the Indian Constitution deals with _____.

- Ans ☒ A. The Union
☐ B. Fundamental Duties
☐ C. Fundamental Rights
☐ D. Directive Principle of State Policy

Question ID : 630680251950

Status : Answered

Chosen Option : D

Q.17 What was the main reason of Bardoli Satyagraha of 1928?

- Ans ☐ A. Ban on Indigo cultivation
☐ B. Massacre in Bardoli by British Army
☐ C. Forceful religion conversion
☒ D. Enhancement of land revenue

Question ID : 630680251936

Status : Answered

Chosen Option : A

Q.18 According to the regulations of the Indus Water Treaty (1960), India can use only _____ of the total water carried by the Indus river system.

- Ans ☐ A. 10 per cent
☒ B. 20 per cent
☐ C. 15 per cent
☐ D. 25 per cent

Question ID : 630680251945

Status : Answered

Chosen Option : B

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Q.19 Which Union ministry of India launched the e-Shram portal?

- Ans
- ☐ A. Ministry of Commerce and Industry
 - ☐ B. Ministry of Home Affairs
 - ☐ C. Ministry of Social Justice and Empowerment
 - ☒ D. Ministry of Labour & Employment

Question ID : 630680251933

Status : Answered

Chosen Option : D

Q.20 Which of the following articles of the Indian Constitution deals with provisions related to the rights of citizenship of certain persons of Indian origin residing outside India?

- Ans
- ☒ A. Article 8
 - ☐ B. Article 5
 - ☐ C. Article 7
 - ☐ D. Article 6

Question ID : 630680251949

Status : Answered

Chosen Option : C

Q.21 Which article of the Indian Constitution talks about salaries and allowances of the Speaker of the House of the People?

- Ans
- ☐ A. Article 94
 - ☒ B. Article 97
 - ☐ C. Article 95
 - ☐ D. Article 96

Question ID : 630680251951

Status : Answered

Chosen Option : B

Q.22 Which of the following Indian states has the highest literacy rate in India as per the 2011 census of India?

- Ans
- ☒ A. Haryana
 - ☐ B. Chhattisgarh
 - ☐ C. Andhra Pradesh
 - ☐ D. Arunachal Pradesh

Question ID : 630680251947

Status : Answered

Chosen Option : C

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Q.23 Pongal is the main festival of which Indian state?

- Ans
- ✓ A. Tamil Nadu
 - ✗ B. Kerala
 - ✗ C. Andhra Pradesh
 - ✗ D. Telangana

Question ID : 630680251942
Status : Answered
Chosen Option : B

Q.24 The annual Rath Yatra of Lord Balabhadra, Devi Subhadra, and Lord Jagannath was held in Puri for how many days?

- Ans
- ✓ A. Nine-day
 - ✗ B. Five-day
 - ✗ C. Seven-day
 - ✗ D. Ten-day

Question ID : 630680251943
Status : Answered
Chosen Option : B

Q.25 What percent of oxygen do human exhale?

- Ans
- ✗ A. 11.1%
 - ✗ B. 21%
 - ✓ C. 16.4%
 - ✗ D. 18.8%

Question ID : 630680251953
Status : Answered
Chosen Option : C

Section : Physics Chemistry Maths

Q.1 Which of the following is a semiconductor?

- Ans
- ✗ A. Iron
 - ✓ B. Germanium
 - ✗ C. Copper
 - ✗ D. Silver

Question ID : 630680251970
Status : Answered
Chosen Option : B

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Q.2 The ampere is the value of that steady current which, when maintained in each of the two very long, straight, parallel conductors of negligible cross-section, and placed _____ metre apart in vacuum, would produce on each of these conductors a force equal to 2×10^{-7} newtons per metre of length.

- Ans
- ☒ A. 0.1
 - ☒ B. 10
 - ☒ C. 1
 - ☒ D. 100

Question ID : 630680251975
 Status : Answered
 Chosen Option : B

Q.3 Find the term independent of x of $\left(\frac{1}{2}x^{1/3} + x^{-1/5}\right)^8$.

- Ans
- ☒ A. T_6
 - ☒ B. T_7
 - ☒ C. T_4
 - ☒ D. T_5

Question ID : 630680251964
 Status : Answered
 Chosen Option : B

Q.4 A bullet of mass 8 grams moving with a speed of 450 m/s enters a heavy wooden block and is stopped after a distance of 30 cm. What is the average resistive force exerted by the block on the bullet?

- Ans
- ☒ A. 2400 N
 - ☒ B. 2600 N
 - ☒ C. 2700 N
 - ☒ D. 2900 N

Question ID : 630680251974
 Status : Answered
 Chosen Option : B

Q.5 Whose model of atom is also known as the plum pudding model?

- Ans
- ☒ A. Thomson's model
 - ☒ B. Rutherford's Model
 - ☒ C. Faradays' Model
 - ☒ D. Einstein's Model

Question ID : 630680251963
 Status : Answered
 Chosen Option : B

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Q.6 The Lattice Enthalpy of an ionic solid is defined as the energy required to completely separate _____ of a solid ionic compound into gaseous constituent ions.

- Ans**
- ☒ A. one kilogram
 - ☒ B. one gram
 - ☒ C. one mole
 - ☒ D. one quintal

Question ID : 630680251957
Status : Answered
Chosen Option : B

Q.7 The value of 5 charges in a system is +8, +10, -15, -20 and +30. What is the net charge of the system?

- Ans**
- ☒ A. +83
 - ☒ B. -83
 - ☒ C. -13
 - ☒ D. +13

Question ID : 630680251972
Status : Answered
Chosen Option : D

Q.8 In which of the following case are the amino acids basic in nature?

- Ans**
- ☒ A. Amino and carboxyl groups are equal in number
 - ☒ B. Number of amino groups are more than carboxyl groups in number
 - ☒ C. They cannot be basic in nature
 - ☒ D. Number of amino groups are less than carboxyl groups in number

Question ID : 630680251956
Status : Answered
Chosen Option : D

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Q.9 Which of the following statements is correct? (H is enthalpy)

I. ΔH is positive for exothermic reactions.

II. ΔH is negative for endothermic reactions.

- Ans
- ☐ A. Both I and II
 - ☐ B. Only II
 - ☐ C. Only I
 - ☒ D. Neither I nor II

Question ID : 630680251978

Status : Answered

Chosen Option : A

Q.10 If $f = 0.1$ metre for a glass lens, what is the power of the lens?

- Ans
- ☐ A. 0.1 D
 - ☐ B. 1 D
 - ☒ C. 10 D
 - ☐ D. 100 D

Question ID : 630680251977

Status : Answered

Chosen Option : C

Q.11 $A \cap (A \cup B)'$ is equal to _____.

- Ans
- ☐ A. ϕ
 - ☐ B. $A \cap B$
 - ☐ C. B
 - ☒ D. A

Question ID : 630680251967

Status : Answered

Chosen Option : A

Q.12 What is the common name of CH_3COOH ?

- Ans
- ☐ A. Anisole acid
 - ☐ B. Acetonic acid
 - ☐ C. Acetone
 - ☒ D. Acetic acid

Question ID : 630680251961

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Q.13 Which of the following is NOT an example of aromatic hydrocarbon?

- Ans ☒ A. Propanone
☒ B. Toluene
☒ C. Benzene
☒ D. Naphthalene

Question ID : 630680251960
Status : Answered
Chosen Option : C

Q.14 The _____ of powers of the concentration of the reactants in the rate law expression is called the order of that chemical reaction.

- Ans ☒ A. product
☒ B. division
☒ C. difference
☒ D. sum

Question ID : 630680251958
Status : Answered
Chosen Option : C

Q.15 Which of the following is also known as the wood spirit?

- Ans ☒ A. Methanol
☒ B. Propanol
☒ C. Ethanol
☒ D. Isopropanol

Question ID : 630680251955
Status : Answered
Chosen Option : B

Q.16 Which of the following is conditional $p \rightarrow q$?

- Ans ☒ A. if q, then p
☒ B. p is necessary for q
☒ C. q is sufficient for p
☒ D. p only if q

Question ID : 630680251966
Status : Answered
Chosen Option : D

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Q.17 Which of the following is correct regarding sign convention of reflection in spherical mirrors?

- I. Distances along the incident light are negative.
- II. Height upwards is negative.

Ans

☒ A. Only I

☒ B. Neither I nor II

☒ C. Only II

☒ D. Both I and II

Question ID : 630680251976

Status : Answered

Chosen Option : C

Q.18 What are the number of solutions of $x^2 + |x - 1| - 1 = 0$?

Ans

☒ A. 2

☒ B. 0

☒ C. 1

☒ D. 3

Question ID : 630680251969

Status : Answered

Chosen Option : A

Q.19 Which of the following statements is correct regarding equilibrium?

- I. All measurable properties of the system remain constant.
- II. Equilibrium is possible only in a closed system at all temperatures.

Ans

☒ A. Only I

☒ B. Both I and II

☒ C. Only II

☒ D. Neither I nor II

Question ID : 630680251959

Status : Answered

Chosen Option : B

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Q.20 For uniform motion, acceleration is _____ and the x-t graph is a straight line _____ to the time axis.

- Ans
- ☒ A. constant, parallel
 - ☒ B. constant, inclined
 - ☒ C. zero, inclined
 - ☒ D. zero, parallel

Question ID : 630680251973

Status : Answered

Chosen Option : B

Q.21 Which of the following is the correct dimensional equation of speed?

- Ans
- ☒ A. $[M^0 L T^{-1}]$
 - ☒ B. $[M^0 L^2 T^{-2}]$
 - ☒ C. $[M^0 L^2 T^{-1}]$
 - ☒ D. $[M^0 L T^{-2}]$

Question ID : 630680251979

Status : Answered

Chosen Option : A

Q.22 A two-input logic gate has both inputs as 1.

Which of the following pair of gate and output will be correct for the given situation?

- Ans
- ☒ A. NAND – 1
 - ☒ B. OR – 1
 - ☒ C. NOR – 1
 - ☒ D. AND – 0

Question ID : 630680251971

Status : Answered

Chosen Option : B

Q.23 If x is a real number and $|x| < 5$, then _____.

- Ans
- ☒ A. $-5 \leq x \leq 5$
 - ☒ B. $x \leq -5$
 - ☒ C. $x \geq 5$
 - ☒ D. $-5 < x < 5$

Question ID : 630680251965

Status : Answered

Chosen Option : D

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Q.24 Which of the following pair is correct?

I. Oxidation – A decrease in the oxidation number of the element in the given substance.

II. Reduction – An increase in the oxidation number of the element in the given substance.

Ans ☒ A. Neither I nor II

☐ B. Only I

☐ C. Both I and II

☐ D. Only II

Question ID : 630680251962

Status : Answered

Chosen Option : C

Q.25 The value of $1 + \frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \frac{1}{16} + \dots$ till infinity is _____.

Ans ☐ A. 12

☐ B. 9

☐ C. 3

☒ D. 2

Question ID : 630680251968

Status : Answered

Chosen Option : B

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